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Subject: Re: TpcRiemannTrackingTask - ideal PID now working - please rerun reconstruction

Posted by [Sverre Dørheim](#) on Tue, 02 Aug 2011 11:03:27 GMT

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Hi Lia

I implemented the fix you proposed, this makes the pid-macro crash at a later event with the following stack trace. This points towards geane, as it crashed during propagation using geane.

Best regards  
Sverre

\*\*\* Break \*\*\* floating point exception

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There was a crash (#7 0xb71bee3d in SigHandler(ESignals) ()).
This is the entire stack trace of all threads:
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```
#0 0xb76ed424 in __kernel_vsyscall ()
#1 0xb6580003 in __waitpid_nocancel ()
    at ../sysdeps/unix/syscall-template.S:82
#2 0xb6521e63 in do_system (line=<value optimized out>)
    at ../sysdeps/posix/system.c:149
#3 0xb663d3bd in system (
    line=0x30d42650 "
/nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/etc/gdb-backtrace.sh 12515 1>&2")
    at pt-system.c:29
#4 0xb71b933d in TUnixSystem::Exec(char const*) ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCore.so
#5 0xb71bf91a in TUnixSystem::StackTrace() ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCore.so
#6 0xb71bed2f in TUnixSystem::DispatchSignals(ESignals) ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCore.so
#7 0xb71bee3d in SigHandler(ESignals) ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCore.so
#8 0xb71b5ee2 in sighandler(int) ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCore.so
#9 <signal handler called>
#10 0xb0b8ce9d in FairGeanePro::Propagate (this=0x30d44cc8, TParam=0x30d44a38,
    TEnd=0x30d44f70, PDG=-211)
```

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at /nfs/hicran/project/panda/SIM/sdorheim/Programming/pandaROOT/cleanTrunk/
geane/FairGeanePro.cxx:143
#11 0xaffdeb1f in PndPidCorrelator::GetTrackInfo (this=0x9e56b70,
    track=0x2c38ba38, pidCand=0x30979d10)
    at /nfs/hicran/project/panda/SIM/sdorheim/Programming/pandaROOT/cleanTrunk/
pid/PidCorr/PndPidTrackInfo.cxx:47
#12 0xaffd46c1 in PndPidCorrelator::ConstructChargedCandidate (this=0x9e56b70)
    at /nfs/hicran/project/panda/SIM/sdorheim/Programming/pandaROOT/cleanTrunk/
pid/PidCorr/PndPidCorrelator.cxx:594
#13 0xaffd411f in PndPidCorrelator::Exec (this=0x9e56b70, option=0xb3671540 "")
    at /nfs/hicran/project/panda/SIM/sdorheim/Programming/pandaROOT/cleanTrunk/
pid/PidCorr/PndPidCorrelator.cxx:538
#14 0xb713fe78 in TTask::ExecuteTasks(char const*) ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCore.so
#15 0xb713f15e in TTask::ExecuteTask(char const*) ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCore.so
#16 0xb35ba9d4 in FairRunAna::Run (this=0x944baa8, Ev_start=0, Ev_end=1000)
    at /nfs/hicran/project/panda/SIM/sdorheim/Programming/pandaROOT/cleanTrunk/
base/FairRunAna.cxx:353
#17 0xb361602d in G__FairDict_894_0_5 (result7=0xbfa0b6b8,
    funcname=0x9c1aa58 "", libp=0xbfa01074, hash=0)
    at /nfs/hicran/project/panda/SIM/sdorheim/Programming/pandaROOT/cleanTrunk/
build/base/FairDict.cxx:13775
#18 0xb6a2ae97 in Cint::G__ExceptionWrapper(int (*)(G__value*, char const*, G__param*,
int), G__value*, char*, G__param*, int) ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#19 0xb6ad9c8f in G__execute_call ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#20 0xb6adab2a in G__call_cppfunc ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#21 0xb6ab51a5 in G__interpret_func ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#22 0xb6aa267d in G__getfunction ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#23 0xb6b9e004 in G__getstructmem(int, G__FastAllocString&, char*, int, char*, int*,
G__var_array*, int) ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#24 0xb6b93d09 in G__getvariable ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#25 0xb6a7b618 in G__getitem ()
    from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#26 0xb6a81c17 in G__getexpr ()

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from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#27 0xb6b09d74 in G__exec_statement ()
from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#28 0xb6a670cd in G__exec_tempfile_core ()
from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#29 0xb6a673bb in G__exec_tempfile ()
from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#30 0xb6b1e124 in G__process_cmd ()
from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCint.so
#31 0xb717adcb in TCint::ProcessLine(char const*, TInterpreter::EErrorCode*) ()
from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCore.so
#32 0xb717a911 in TCint::ProcessLineSynch(char const*, TInterpreter::EErrorCode*) ()
from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCore.so
#33 0xb70c9e8a in TApplication::ExecuteFile(char const*, int*, bool) ()
from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCore.so
#34 0xb70ca2dc in TApplication::ProcessFile(char const*, int*, bool) ()
from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCore.so
#35 0xb70c777f in TApplication::ProcessLine(char const*, bool, int*) ()
from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libCore.so
#36 0xb67bd821 in TRint::Run(bool) ()
from /nfs/hicran/project/panda/SIM/FAIRRoot/fairsoft_release_may11/tools/root
_5.28d_qt_custom_TH2Poly/lib/libRint.so
#37 0x08048eaf in main ()
#38 0xb64ffc76 in __libc_start_main (main=0x8048e40 <main>, argc=7,
ubp_av=0xbfa14a64, init=0x8049040 <__libc_csu_init>,
fini=0x8049030 <__libc_csu_fini>, rtdl_fini=0xb76fc040 <_dl_fini>,
stack_end=0xbfa14a5c) at libc-start.c:228
#39 0x08048d71 in _start ()
=====

```

The lines below might hint at the cause of the crash.  
If they do not help you then please submit a bug report at  
<http://root.cern.ch/bugs>. Please post the ENTIRE stack trace  
from above as an attachment in addition to anything else  
that might help us fixing this issue.

```

=====
#10 0xb0b8ce9d in FairGeanePro::Propagate (this=0x30d44cc8, TParam=0x30d44a38,
TEnd=0x30d44f70, PDG=-211)
at /nfs/hicran/project/panda/SIM/sdorheim/Programming/pandaROOT/cleanTrunk/
geane/FairGeanePro.cxx:143
#11 0xaffdeb1f in PndPidCorrelator::GetTrackInfo (this=0x9e56b70,

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track=0x2c38ba38, pidCand=0x30979d10)
  at /nfs/hicran/project/panda/SIM/sdorheim/Programming/pandaROOT/cleanTrunk/
pid/PidCorr/PndPidTrackInfo.cxx:47
#12 0xaffd46c1 in PndPidCorrelator::ConstructChargedCandidate (this=0x9e56b70)
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#13 0xaffd411f in PndPidCorrelator::Exec (this=0x9e56b70, option=0xb3671540 "")
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#16 0xb35ba9d4 in FairRunAna::Run (this=0x944baa8, Ev_start=0, Ev_end=1000)
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base/FairRunAna.cxx:353
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